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NOTICE OF ALLOWANCE AND FEE(S) DUE

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10/28/2010

CHAPMAN AND CUTLER 111 WEST MONROE STREET CHICAGO, IL 60603 EXAMINER

ROJAS, OMAR R

ART UNIT PAPER NUMBER

2874

DATE MAILED: 10/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,661	06/05/2007	Yoshihiro Hashimoto	1717727	2809

TITLE OF INVENTION: METHOD FOR GENERATING CARRIER RESIDUAL SIGNAL AND ITS DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/28/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CHAPMAN AND CUTLER II WEST MONROE STREET CHICAGO, II. 60603 APPEACATION NO. PELNO DATE PERST NAMED INVENTOR ATTORNEY DOCKET NO. CONFEMATION NO. 10593,661 06052007 Yoshibin Hashimot 1717727 2809 APPEACATION NO. PELNO DATE PERST NAMED INVENTOR ATTORNEY DOCKET NO. CONFEMATION NO. 10593,661 060522007 Yoshibin Hashimot 1717727 2809 TITLE OF INVENTION: METHOD FOR GENERATING CARRIER RESIDIAL SIGNAL AND ITS DEVICE APPEACATION NO. SISTEM SIGNAL SIGNAL AND ITS DEVICE APPEACATION NO. SISTEM PERST NAMED INVENTOR ATTORNEY DOCKET NO. CONFEMATION NO. 10593,661 060522007 Yoshibin Hashimot 1717727 2809 TITLE OF INVENTION: METHOD FOR GENERATING CARRIER RESIDIAL SIGNAL AND ITS DEVICE APPEACATION NO. SISTEM SISTE	appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed other	ng the Patent, advance of herwise in Block 1, by (orders and notification of m (a) specifying a new corres	paintenance fees woondence address;	vill be and/o	mailed to the current r (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government 4a. The following fee(s) are submitted: Ab. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. Do. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Date	PLEASE NOTE: Unl recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee pletion of this form is NC	e data will appear on the pa OT a substitute for filing an a	tent. If an assign	ee is io	dentified below, the do	cument has been filed for
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Publication Fee (No small entity discount permitted) Advance Order - # of Copies	_	are submitted:	4		se first reapply ar	ıy prev	viously paid issue fee s	hown above)
Advance Order - # of Copies The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date	<u> </u>							
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a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party ir interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date				overpayment, to Depos	it Account Numbe	er	(enclose ar	extra copy of this form).
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	NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademarl	ed from anyone other than th k Office.	e applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
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Typed or printed name Registration No.	Typed or printed name							
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process)					•			
an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450	an application. Confident submitting the completed this form and/or suggesti	tiality is governed by 35 1 application form to the ions for reducing this bu	U.S.C. 122 and 37 CFR USPTO. Time will vary den. should be sent to the	1.14. This collection is esti y depending upon the indivi ne Chief Information Office	mated to take 12 i dual case. Any co r. U.S. Patent and	minute: mmen Trader	s to complete, including ts on the amount of tin mark Office, U.S. Depa	g gathering, preparing, and ne you require to complete rtment of Commerce, P.O.

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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/593,661 06/05/2007		Yoshihiro Hashimoto	1717727 2809		
24240 75	590 10/28/2010		EXAM	INER	
CHAPMAN AND CUTLER			ROJAS, 0	OMAR R	
111 WEST MONROE STREET CHICAGO, IL 60603			ART UNIT PAPER NUMBER 2874		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 588 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 588 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/593,661	HASHIMOTO ET AL.
Notice of Allowability	Examiner	Art Unit
	OMARROIAS	2974
	OMAR ROJAS	2874
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the request for continuous</u>	ued examination filed 10/0	<u>4/2010</u> .
2. The allowed claim(s) is/are <u>1-3,5-9,12 and 14</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 	e been received.	
Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.	
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of	nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No 7. ⊠ Examiner'	o./Mail Date s Amendment/Comment
Paper No./Mail Date <u>10/04/2010</u>		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowance
/Omar Rojas/		
Primary Examiner, Art Unit 2874		

EXAMINER'S COMMENT

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 10/04/2010 has been entered.

Information Disclosure Statement

The prior art documents submitted by applicant(s) in the Information Disclosure Statement(s) ("IDS") filed on 10/04/2010 have all been considered and made of record (note the attached copy of form(s) PTO-1449).

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The previous Reasons for Allowance in the Office communication mailed 07/09/2010 are incorporated herein. In the examiner's opinion, none of the prior art documents submitted in the Information Disclosure Statement filed 10/04/2010 is deemed to affect the patentability of the previously allowed claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OMAR ROJAS whose telephone number is (571)272-2357. The examiner can normally be reached on Monday-Friday (10:00AM-6:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Uyen-Chau Le can be reached on (571) 272-2379. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Omar Rojas/ Primary Examiner, Art Unit 2874

or October 22, 2010